

30912. KACHINSKIY, I. P.

Sanitariya kharakteristika zhilishchnogo stroitel'stva poslevoyennogo  
perioda v selakh Ukrainskoy SSR. Vracheb. delo., 1949, No. 10, stb. 939-40.

KACHINSKIY, I.P., nauchnyy sotrudnik; SHINKAROV, V.Ye., nauchnyy sotrudnik

Comparative rating of dwelling houses constructed of reeds, and of  
clay and reeds combined [with summary in English]. Gig. i san. 24  
no.2:16-22 F '59. (MIRA 12:3)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy  
gigiyeny.

(HOUSING)

hyg. & thermoregulatory comparison of houses constructed  
of reeds & mud with reeds in Ukraine (Rus))

KACHINSKIY, I.P., nauchnyy soodrudnik

Planning, construction, and equipping of dwellings for collective farm workers in new villages in the Kakhov and Reservoir zone. Gig. 1 san. 24 no.5:67-70 My '59. (MIRA 12:7)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy gigiyeny.

(TOWN PLANNING,

collective farm village planning (Rus))

(AGRICULTURE,

same)

137 AND 138 (FEB 61)		139 AND 140 (FEB 61)	
PAGES 137 AND 138		PAGES 139 AND 140	
6C		C-111-1	
<p>Freezing, thawing, and soil humidity in woods and fields. N. A. Loomis (Proc. Soil Res. Inst. Physico-math. Soc. Minn. State Univ., 1927; Proc. Internat. Soc. Soil Sci., 1928, 6, 238-250).—The nature of the thawing process in soil together with the soil-water movements accompanying it are discussed. A. G. POLLARD.</p>			
A13-11A METALLURGICAL LITERATURE CLASSIFICATION		S-117-11A-117-11A	
137 AND 138 (FEB 61)		139 AND 140 (FEB 61)	
PAGES 137 AND 138		PAGES 139 AND 140	
137 AND 138 (FEB 61)		139 AND 140 (FEB 61)	
PAGES 137 AND 138		PAGES 139 AND 140	

15

New methods for studying some physical properties of soil. N. A. KACHENKIN.  
*Proc. 2nd Intern. Congr. Soil Sci., Leningrad 1930, I, 139-00(1932)(in GERMAN).*  
Means is described for taking samples with undisturbed structure and for detg. por-  
osity, permeability to H<sub>2</sub>O, compactness, viscosity or resistance to tearing, swelling, etc.  
Most of the methods are applicable either to soil in the field or to monoliths in the lab.  
These characteristics of a loamy podzol profile are discussed. There are 48 references.  
C. J. SCHOLLENBERGER

1ST AND 2ND CODES										3RD AND 4TH CODES									
PROCESS AND PROPERTIES INDEX																			
<p>CA</p> <p>Method of investigation of soil moisture. N. A. KACHENKO. Proc. 2nd Intern. Congr. Soil Sci., Leningrad 1930. I. 107-109. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.</p>																			
MATERIALS CODE										CROSS REFERENCE									
ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION										CROSS REFERENCE									
10000 10100 10200 10300 10400 10500 10600 10700 10800 10900 11000 11100 11200 11300 11400 11500 11600 11700 11800 11900 12000 12100 12200 12300 12400 12500 12600 12700 12800 12900 13000 13100 13200 13300 13400 13500 13600 13700 13800 13900 14000 14100 14200 14300 14400 14500 14600 14700 14800 14900 15000 15100 15200 15300 15400 15500 15600 15700 15800 15900 16000 16100 16200 16300 16400 16500 16600 16700 16800 16900 17000 17100 17200 17300 17400 17500 17600 17700 17800 17900 18000 18100 18200 18300 18400 18500 18600 18700 18800 18900 19000 19100 19200 19300 19400 19500 19600 19700 19800 19900 20000 20100 20200 20300 20400 20500 20600 20700 20800 20900 21000 21100 21200 21300 21400 21500 21600 21700 21800 21900 22000 22100 22200 22300 22400 22500 22600 22700 22800 22900 23000 23100 23200 23300 23400 23500 23600 23700 23800 23900 24000 24100 24200 24300 24400 24500 24600 24700 24800 24900 25000 25100 25200 25300 25400 25500 25600 25700 25800 25900 26000 26100 26200 26300 26400 26500 26600 26700 26800 26900 27000 27100 27200 27300 27400 27500 27600 27700 27800 27900 28000 28100 28200 28300 28400 28500 28600 28700 28800 28900 29000 29100 29200 29300 29400 29500 29600 29700 29800 29900 30000 30100 30200 30300 30400 30500 30600 30700 30800 30900 31000 31100 31200 31300 31400 31500 31600 31700 31800 31900 32000 32100 32200 32300 32400 32500 32600 32700 32800 32900 33000 33100 33200 33300 33400 33500 33600 33700 33800 33900 34000 34100 34200 34300 34400 34500 34600 34700 34800 34900 35000 35100 35200 35300 35400 35500 35600 35700 35800 35900 36000 36100 36200 36300 36400 36500 36600 36700 36800 36900 37000 37100 37200 37300 37400 37500 37600 37700 37800 37900 38000 38100 38200 38300 38400 38500 38600 38700 38800 38900 39000 39100 39200 39300 39400 39500 39600 39700 39800 39900 40000 40100 40200 40300 40400 40500 40600 40700 40800 40900 41000 41100 41200 41300 41400 41500 41600 41700 41800 41900 42000 42100 42200 42300 42400 42500 42600 42700 42800 42900 43000 43100 43200 43300 43400 43500 43600 43700 43800 43900 44000 44100 44200 44300 44400 44500 44600 44700 44800 44900 45000 45100 45200 45300 45400 45500 45600 45700 45800 45900 46000 46100 46200 46300 46400 46500 46600 46700 46800 46900 47000 47100 47200 47300 47400 47500 47600 47700 47800 47900 48000 48100 48200 48300 48400 48500 48600 48700 48800 48900 49000 49100 49200 49300 49400 49500 49600 49700 49800 49900 50000 50100 50200 50300 50400 50500 50600 50700 50800 50900 51000 51100 51200 51300 51400 51500 51600 51700 51800 51900 52000 52100 52200 52300 52400 52500 52600 52700 52800 52900 53000 53100 53200 53300 53400 53500 53600 53700 53800 53900 54000 54100 54200 54300 54400 54500 54600 54700 54800 54900 55000 55100 55200 55300 55400 55500 55600 55700 55800 55900 56000 56100 56200 56300 56400 56500 56600 56700 56800 56900 57000 57100 57200 57300 57400 57500 57600 57700 57800 57900 58000 58100 58200 58300 58400 58500 58600 58700 58800 58900 59000 59100 59200 59300 59400 59500 59600 59700 59800 59900 60000 60100 60200 60300 60400 60500 60600 60700 60800 60900 61000 61100 61200 61300 61400 61500 61600 61700 61800 61900 62000 62100 62200 62300 62400 62500 62600 62700 62800 62900 63000 63100 63200 63300 63400 63500 63600 63700 63800 63900 64000 64100 64200 64300 64400 64500 64600 64700 64800 64900 65000 65100 65200 65300 65400 65500 65600 65700 65800 65900 66000 66100 66200 66300 66400 66500 66600 66700 66800 66900 67000 67100 67200 67300 67400 67500 67600 67700 67800 67900 68000 68100 68200 68300 68400 68500 68600 68700 68800 68900 69000 69100 69200 69300 69400 69500 69600 69700 69800 69900 70000 70100 70200 70300 70400 70500 70600 70700 70800 70900 71000 71100 71200 71300 71400 71500 71600 71700 71800 71900 72000 72100 72200 72300 72400 72500 72600 72700 72800 72900 73000 73100 73200 73300 73400 73500 73600 73700 73800 73900 74000 74100 74200 74300 74400 74500 74600 74700 74800 74900 75000 75100 75200 75300 75400 75500 75600 75700 75800 75900 76000 76100 76200 76300 76400 76500 76600 76700 76800 76900 77000 77100 77200 77300 77400 77500 77600 77700 77800 77900 78000 78100 78200 78300 78400 78500 78600 78700 78800 78900 79000 79100 79200 79300 79400 79500 79600 79700 79800 79900 80000 80100 80200 80300 80400 80500 80600 80700 80800 80900 81000 81100 81200 81300 81400 81500 81600 81700 81800 81900 82000 82100 82200 82300 82400 82500 82600 82700 82800 82900 83000 83100 83200 83300 83400 83500 83600 83700 83800 83900 84000 84100 84200 84300 84400 84500 84600 84700 84800 84900 85000 85100 85200 85300 85400 85500 85600 85700 85800 85900 86000 86100 86200 86300 86400 86500 86600 86700 86800 86900 87000 87100 87200 87300 87400 87500 87600 87700 87800 87900 88000 88100 88200 88300 88400 88500 88600 88700 88800 88900 89000 89100 89200 89300 89400 89500 89600 89700 89800 89900 90000 90100 90200 90300 90400 90500 90600 90700 90800 90900 91000 91100 91200 91300 91400 91500 91600 91700 91800 91900 92000 92100 92200 92300 92400 92500 92600 92700 92800 92900 93000 93100 93200 93300 93400 93500 93600 93700 93800 93900 94000 94100 94200 94300 94400 94500 94600 94700 94800 94900 95000 95100 95200 95300 95400 95500 95600 95700 95800 95900 96000 96100 96200 96300 96400 96500 96600 96700 96800 96900 97000 97100 97200 97300 97400 97500 97600 97700 97800 97900 98000 98100 98200 98300 98400 98500 98600 98700 98800 98900 99000 99100 99200 99300 99400 99500 99600 99700 99800 99900 100000 100100 100200 100300 100400 100500 100600 100700 100800 100900 101000 101100 101200 101300 101400 101500 101600 101700 101800 101900 102000 102100 102200 102300 102400 102500 102600 102700 102800 102900 103000 103100 103200 103300 103400 103500 103600 103700 103800 103900 104000 104100 104200 104300 104400 104500 104600 104700 104800 104900 105000 105100 105200 105300 105400 105500 105600 105700 105800 105900 106000 106100 106200 106300 106400 106500 106600 106700 106800 106900 107000 107100 107200 107300 107400 107500 107600 107700 107800 107900 108000 108100 108200 108300 108400 108500 108600 108700 108800 108900 109000 109100 109200 109300 109400 109500 109600 109700 109800 109900 110000 110100 110200 110300 110400 110500 110600 110700 110800 110900 111000 111100 111200 111300 111400 111500 111600 111700 111800 111900 112000 112100 112200 112300 112400 112500 112600 112700 112800 112900 113000 113100 113200 113300 113400 113500 113600 113700 113800 113900 114000 114100 114200 114300 114400 114500 114600 114700 114800 114900 115000 115100 115200 115300 115400 115500 115600 115700 115800 115900 116000 116100 116200 116300 116400 116500 116600 116700 116800 116900 117000 117100 117200 117300 117400 117500 117600 117700 117800 117900 118000 118100 118200 118300 118400 118500 118600 118700 118800 118900 119000 119100 119200 119300 119400 119500 119600 119700 119800 119900 120000 120100 120200 120300 120400 120500 120600 120700 120800 120900 121000 121100 121200 121300 121400 121500 121600 121700 121800 121900 122000 122100 122200 122300 122400 122500 122600 122700 122800 122900 123000 123100 123200 123300 123400 123500 123600 123700 123800 123900 124000 124100 124200 124300 124400 124500 124600 124700 124800 124900 125000 125100 125200 125300 125400 125500 125600 125700 125800 125900 126000 126100 126200 126300 126400 126500 126600 126700 126800 126900 127000 127100 127200 127300 127400 127500 127600 127700 127800 127900 128000 128100 128200 128300 128400 128500 128600 128700 128800 128900 129000 129100 129200 129300 129400 129500 129600 129700 129800 129900 130000 130100 130200 130300 130400 130500 130600 130700 130800 130900 131000 131100 131200 131300 131400 131500 131600 131700 131800 131900 132000 132100 132200 132300 132400 132500 13260																			

1ST AND 2ND ORDER

PRINCIPAL AND PROPERTY

Soil-ameliorative characterization of territory, as exemplified by the case of the Bogaz steppe (Azerbaidzhan).  
 Introduction. N. A. Kachinskii. I. Soils and geomorphology. I. A. S. II. Salt content of the soil. D. G. Vukobrat. III. Physical properties of the soil. Conclusions. N. A. Kachinskii. *Proc. Conf. Soil Sci. Serator 1, 124, 125-7, 128-9, 130-1, 135-7 (1937). A reclamation project, based on a study of the phys. and chem. properties of the soil, and of climatic and geographical factors, is outlined.*  
 H. C. P. A.

ASU. SLA. BOTANICAL LITERATURE CLASSIFICATION

[illegible]





Problemy, svyaz.

"Main problems of soil tillage"

Pochvovedeniye, No. 5, 1946.

KACHINSKIY, N. S.

"On Soil Structure, Some Water Properties of Soils and Their Differential Porosity,"  
Pochvoved., No. 6, 1947.

KACHINSKIY, N. A.

PA 56/49T5

USSR/Agriculture  
Soil Science  
Literature

Nov 48

"Professor S. A. Zakharov's Seventieth Birthday,"  
N. A. Kachinskiy, 3 pp

"Pochvoved" No 11

After completing his preparatory studies in Tiflis, where he was born, Zakharov studied under Sabanin at Moscow, accompanied Dokuchayev on an expedition to Caucasus, and later worked in the Petersburg For Inst. His greatest interest was in soil science, with which most of the 41 works listed in an appendix are concerned.

56/49T5

KACHINSKIY, N. A.

25008 KACHINSKIY, N. A. Souremennoe Sostoyaniye I Osnovnyye Zadachi V Razviti Fiziki  
Pochv. Trudy Yubileynoy Sessii, Posvyashch. Stoletiyu So Dnya Razhdeniya  
Dokuchaeva. M. - L., 1949, S-338-47

30: Letopis', No. 33, 1949

KACHINSKY, N.A.

33258. Onkotorykh Nepravil'nykh Teoriyakh Strukturoobrazovaniya Pochvy.  
Pochvovedeniye, 1949, No. 10, c. 619-27-Bibliogr: 25 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol.45, Moskva, 1949

KACHINSKIY, Nikolai Antonovich, 1894-

Opyt agrofizicheskoy kharakteristiki pochv na primere Tsentral'nogo Urala Agrophysical characteristics of soils of Central Ural. Moskva, Akademiya nauk SSSR, 1950. 259 p.

1. Soils - Ural Mountain region.

KACHINSKIY, MIKODIM ANTONOVICH,

Agriculture & Plant & Animal Industry.

Soil, its properties and life. Moskva, izd-vo Akademii nauk SSSR, 1951.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.



KACHINSKIY, Nikodim Antonovich, 1894- .

[Formation and life of the soil] Proiskhozhdenie i zhizn' pochvy. Izd. 4.,  
dop. Moskva, Sovetskaya nauka, 1952. 105 p. (MIRA 6:7)  
(Soils)

KACHINIKIN, N. A.

Soils

"Soil, its properties and life." Reviewed by V. N. Smirnov. Pochvovedenie no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, July, 1952 UNCLASSIFIED.

KACHINSKIY, N. A., PROP.

Soil Moisture

Optimum moisture for working the soil. Sov. agron, 10 no. 9, 1952

Monthly List of Russian Accessions, Library of Congress. November, 1952. UNCLASSIFIED.

1. KACHINSKIY, N.A.
2. USSR (600)
4. Forest soils
7. For basic objective criticism and how not to write abo t soil fertility (answer to an article "Erroneous views on the fertility of forest soils," Les i step' no.5 1952).  
Pochvovedenie no.11 1952

9. Monthly List of Russian Accessions. Library of Congress. March 1953. Unclassified.

N.  
KACHINSKIY, M.A.

Brief summary of soil studies in the Kutuluka irrigation system of the  
Kuybyshev Region. Trudy Pochvennogo Inst. im. V.V. Dokuchaeva, Akad. Nauk  
S.S.S.R. 37, 5-12 '52. (MIRA 6:3)  
(CA 47 no.21:11626 '53)

KACHINSKIY, N.A.

Tree-planting and soil improvement conditions in the chestnut soil zone of the Stalingrad Province (preliminary results of work for 1949-1951). Vest. Mosk.un. 8 no.5:85-92 My '53. (MLR 6:8)

1. Kafedra fiziki i melioratsii pochv.  
(Stalingrad Province--Afforestation) (Afforestation--Stalingrad Province)

OBRUCHEV, V.A., akademik [reviewer]; KACHINSKIY, N.A. [author].

Omission in an excellent book ("Origin and life of the soil." N.A. Kachinski  
Reviewed by V.A. Obruchev). Priroda 42 no.12:120-122 D '53. (MLRA 6:11)  
(Soils) (Kachinskii, Nikodim Antonovich, 1894- )

KACHINSKIY, N. A.

"Soil Structure as Principal Factor of Fertility," a paper to be presented at the 6th International Soil Science Congress, Paris, 28-Aug-8 Sep 56

Library Branch #5

"Methods of Mechanical Soil Analysis and Classification of Soils According to Mechanical Composition," same as above.



KACHINSKIY, Nikodim Antonovich

N/5  
621.34  
.K1

POCHVA, YEYE SVOYSTVA I ZHIZN' (SOIL, ITS CHARACTERISTICS AND LIFE) MOSKVA, AKADEMKNIGA, 1956. 305 p. ILLUS., DIAGRS., MAPS, PORTS, TABLES (NAUCHNO-POPULYARNAYA SERIYA) AT HEAD OF TITLE: AKADEMIYA NAUK SSSR. BIBLIOGRAPHICAL FOOTNOTES.

*KACHINSKIY, N.A.*

USSR/Soil Science - Physical and Chemical Properties of Soil. J.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15260

Author : H.A. Kachinskiy

Inst :

Title : Methods of Mechanical Analysis and Classification of Soils According to Mechanical Composition.  
(Metody mekhanicheskogo analiza pochv i klassifikatsiya pochv po mekhanicheskomu sostavu).

Orig Pub : V sb.: Dokl. 6-mu Mezhdunar. kongressu pochvovedov. 1-ya komis. Fizika pochv. M., 1956, 3-24 (russk.); 25-32 (nem.)

Abstract : Resulting from the evaluation of various methods of preparing soil for mechanical analysis, the author has come to the conclusion that the most acceptable soil preparation method is the one in which soluble salts and carbonates are removed prior to analysis; the most stable and characteristic portion of the soil is then subject

Card 1/2

19

APPROVED FOR RELEASE: 07/19/2001

to analysis. This method is also suitable for carbonate soils. One recommends a suspension concentration of 1-1.5% and 3-4% for light soils. A recommendation is made that the Glushkov method of analysis be named the Glushkov method, after him who first advanced the concept of this method in 1912. A soil classification is presented according to mechanical composition based on the correlation of particles  $< 0.01$  and  $> 0.01$  with regard to the containing of the predominant fraction; there is also a table of soil stoniness. The author suggests the data of mechanical analysis be depicted in the shape of a differential curve; with soil profile data it is necessary to fit the findings into a profile graph.

Card 2/2

for the determination of porosity of general, individual aggregates and intermediate (overall porosity) aggregates which deal with firmly associated, loosely

Card : 1/2

*Kachinskiy, N.A.*

USSR/Soil Science. Physical and Chemical Properties of Soils. I-2

Abs Jour: Referat.Zh.Biol., No. 16, 25 Aug, 1957, 68996

Author : Kachinskiy, N.A.

Inst :

Title : More Precise Mechanical Soil Analysis and Soil Classification by Mechanical Composition.

Orig Pub: Pochvovedenie, 1956, 6, 1-14

Abstract: A detailed concept of silt is offered: clayey silt (particle size 0.001-0.005 mm); colloidal silt-- 0.0005-0.0001 mm; colloids-- smaller than 0.0001 mm. In the scale of soil classification by mechanical composition by comparison with the previously published one, the limits are increased 5% between the heavy clay and light clay; between light and medium clay for all soils; medium and heavy clay for soils of steppe type of soil formation; red soil and yellow soil.

Card 1/1

- 9 -

*KACHINSKIY, N.A.*

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820003-3"

USSR/ Agriculture

Card 1/1 Pub. 86 - 11/42

Authors : Kachinskiy, N. A., Prof.

Title : The granary of the Far East

Periodical : Priroda 45/1, 77-82, Jan 56

Abstract : A description is given of the progress in agriculture made in the Amur region, where wheat, rice, soy beans and various fruits and vegetables are being cultivated in increasing quantities. The rather severe climate is said to cause occasional crop failure, a situation which after an on-the-ground study by the Academy of Science, is being offset by applying measures recommended by this institution. These measures are explained. Illustrations; maps.

Institution : .....

Submitted : .....

~~KACHINSKIY, Nikolai Antonovich~~; POMALEN'KAYA, O.T., redaktor; LOMILINA,  
L.N., tekhnicheskii redaktor

[Agriculture and soil science at Moscow University during the  
last 200 years (1755-1955); brief history] Agronomiia i pochvo-  
vedenie v Moskovskom universitete za 200 let (1755-1955 gg.);  
kratkaiia istoriia. [Moskva] Izd-vo Mosk.univ., 1957. 59 p.  
(Moscow University--History) (MIRA 10:10)  
(Agriculture--Study and teaching--History)

KACHINSKIY, N.A. - *Академик, инж.*

Development of soil science at the Moscow University during the 40 years  
of Soviet rule. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 12 no.3:  
31-47 '57.

(MIRA 10:12)

(Moscow University) (Soil research)

KACHINSKIY, N.A., prof., otv.red.; KONDRASHKOVA, S.F., red.; YERMAKOV, M.S.,  
~~tech.red.~~

[Soil and land improvement research on the Volga-Akhtuba flood plain  
and the Volga delta]. Pochvenno-meliorativnye issledovaniia Volgo-  
Akhtubinskoi poiny i del'ty volgi. [Moskva] Izd-vo Mosk.univ., 1958.  
154 p. (MIRA 11:9)

(Volga Valley--Soils)

KACHINSKIY, N.A., prof.; TYURIN, I.V., akademik, otv.red.; ANTSELOVICH,  
M.Ye., red.isd-va; GUSEVA, I.N., tekhn.red.

[Mechanical and microaggregate composition of soils, and methods  
of studying it] Mekhanicheskii i mikroagregatnyi sostav pochvy,  
metody ego izucheniia. Moskva, Isd-vo Akademii nauk SSSR, 1958.  
191 p. (MIRA 12:1)

(Soil mechanics)

KACHINSKIY, N.A.

Nature of the mechanical and water stability of soil structure as  
related to its genesis. Vest. Mosk un, Ser. biol. pochv., geol.,  
geog. 43 no. 1:3-13 '58. (MIRA 11:7)  
(Soil physics)



KACHINSKIY, N.A.

First congress of delegates of the All-Union Society of Soil  
Scientists. Nauch.dokl.vys.shkoly;biol.nauki no.4:204-205  
'58. (MIRA 11:12)  
(Soil research--Congresses)

~~KACHINSKIY, N.A.~~

Evaluation of physical properties of soils for agricultural purposes and determination of their natural fertility according to mechanical structure. Pochvovedenie no.5:80-83 My '58.

(MIRA 11:6)

1. Pochvennyy institut im. V.V. Dokuchayeva AN SSSR.  
(Soil physics) (Soil fertility)

KACHINSKIY, N.A.

~~Unity of theory and practice as exemplified by the work of the joint~~  
Stalingrad expedition of the Faculty of Biology and Soil Science  
of Moscow University on problems of shelterbelt forestry [with  
summary in English]. Biul.MOIP. Otd.biol. 63 no.6:67-75 W-D '58  
(MIRA 12:1)

(STALINGRAD PROVINCE--WINDBREAKS, SHELTERBELTS, ETC)

KACHINSKIY, N.A.

First congress of the All-Union Society of Soil Scientists, Vest.  
Mosk.un.Ser.biol., pochv., geol., geog. 13 no.3:227-229 '58.  
(MIRA 12:1)

(Soil research--Congresses)

KACHINSKIY, N.A., prof., otv.red.; KAVUN, P.K., red.izd-va; MAKUNI,  
Ye.V., tekhn.red.

[Agricultural characteristics of soils in the Lenkoran zone of  
Azerbaijan and their improvement] *Agronomicheskaya kharakteristika*  
*pochv Lenkoranskoi zony Azerbaidzhana*. Moskva, 1960. 385 p.  
(MIRA 13:9)

1. Akademiya nauk SSSR. Pochvennyy institut imeni V.V.Dokuchayeva.  
(Lenkoran Lowland--Soils)

KACHINSKIY, N.A., prof., otv.red.; KAVUN, P.K., red.izd-va; MAKUNI,  
Ye.V., tekhn.red.

[Soil characteristics of the Lenkoran zone of Azerbaijan from  
the point of view of agricultural land improvement] Agromelio-  
rativnaya kharakteristika pochv Lenkoranskoi zony Azerbaidzhana.  
Moskva, Izd-vo Akad.nauk SSSR, 1960. 375 p.

(MIRA 13:12)

1. Akademiya nauk SSSR. Pochvennyy institut im. V.V.Dokuchayeva.
2. Zaveduyushchiy kafedroy fiziki i melioratsii pochv Moskovskogo  
gosudarstvennogo universiteta i laboratoriyey fiziki i tekhnologii  
pochv Pochvennogo instituta AN SSSR (for Kachinskiy).  
(Lenkoran Lowland--Soils)

KACHINSKIY, N.A.

Soil physics in papers of the Seventh International Congress of  
Soil Scientists. Vest. Mosk. un Ser. 6: Biol., pochv. 16  
no. 3: 41-72 My-Je '61. (MIRA 14:6)  
(Soil physics—Congresses)

VLADYCHENSKIY, S.A.; Prinimali uchastiye: Korenevskaya, V. Ye.; YAKOVLEVA, L.V.;  
LAVRENT'YEV, Yu. L.; RODIONOVA, V.I.; KACHINSKIY, N.A., prof.

Moisture conditions of soils in the Volga-Akhtuba Flood Plain  
and Delta. Vest.Mosk. un. Ser.6: Biol., pochv. 16 no.3:73-80  
My-Je '61. (MIRA 14:6)

1. Kafedra fiziki i melioratsii pochv Moskovskogo gosudarstvennogo  
universiteta.

(Volga-Akhtuba Flood Plain--Soil moisture)  
(Volga Delta--Soil moisture)



TYURIN, I.V., akademik, glav. red.; ZONN, S.V., prof., otv. red.;  
ALEKSANDROVA, L.N., red.; ANTIPOV-KARATAYEV, I.N., red.;  
VERNANDER, N.V., red.; VOLOBUYEV, V.R., red.; DARASELIYA, M.K.,  
red.; IVANOVA, Ye.N., red.; KACHINSKIY, N.A., red.; KONONOVA, M.M.  
red.; NOGINA, N.A., red.; RODE, A.A., red.; SOBOLEV, S.S., red.;  
SOKOLOV, A.V., red.; MARKOV, V.Ya., red. izd-va; ASTAF'YEVA, G.A.,  
tekhn. red.

[Problems of soil research] Problemy pochvovedeniya. Moskva,  
Izd-vo Akad. nauk SSSR, 1962. 287 p. (MIRA 15:7)

1. Vsesoyuznoye obshchestvo pochvovedov. 2. Prezident Vsesoyuznogo  
obshchestva pochvovedov (for Tyurin).  
(Soil research)

KACHINSKIY, N.A.; MODINA, S.A., mladshiy nauchnyy sotrudnik; MOSOLOVA,  
A.I., mladshiy nauchnyy sotrudnik

Problem of the use of high-molecular compounds for structurizing  
soils. Vest. Mosk. univ. Ser. 6: Biol., pochv. 17 no. 4:3-23 J1-Ag  
'62. (MIRA 15:9)

1. Kafedra fiziki i melioratsii pochv Moskovskogo universiteta.
2. Pochvennyy institut imeni prof. V.V. Dokuchayeva (for Modina).  
(Soil conditioners) (Macromolecular compounds)

KACHINSKIY, Nikodim Antonovich; ZVIAGINTSEV, G.D., red.; MUKHINA,  
L.V., tekhn. red.

[Soil structure] Struktura pochvy; itogi i perspektivy  
izucheniia voprosa. Moskva, Izd-vo Mosk. univ., 1963. 98 p.  
(MIRA 16:10)

(Soil research)

KACHINSKIY, N.A., prof.

Twenty days with Polish soil scientists. Vest.Mosk. un.  
Ser. 6: Biol., pochv. 17 no. 2:73-79 Mr-Apr '62.

(MIRA 17:7)

1. Zavednyushchiy kafedroy fiziki i melioratsii pochv  
Moskovskogo universiteta.

KACHINSKIY, N.A.

System of cultivation practices as a basis for obtaining high  
yield. Vest. Mosk. un. Ser. 6; Biol., pochv. 19 no.3:3-10  
My-Je '64. (MIRA 17:12)

1. Kafedra fiziki i melioratsii pochv Moskovskogo universiteta.

KACHINSKIY, N.A.

Eighth International Congress of Soil Scientists. Vest.Mosk. un.  
Ser. 6: Biol., pochv. 20 no.2:91-93 Mr-Apr '65.

(MIRA 18:5)

1. Zaveduyushchiy kafedroy fiziki i melioratsii pochv Moskovskogo  
universiteta.

KACHINSKIY, Nikodim Antonovich; SHAGIROVA, I.M., red.

[Soil physics] Fizika pochvy. Moskva, Vysshaia shkola,  
1965. 322 p. (MIRA 18:8)

*RECEIVED*  
GOLUBTSOV, V.A., prof.; ZAKH, R.G., kand. tekhn. nauk.; KHALDEYEV, P.I., inzh.;  
TAGER, S.A., kand. tekhn. nauk.; KACHINSKIY, R.I., inzh.; KURITSYN,  
F.F.; LAVROV, M.I., inzh.

Discussion on the planning of industrial power plants of medium  
and low capacity. Prom. energ. 13 no. 6:18-33 Ja '58.

(MIRA 11:8)

1. Chlen-korrespondent AN SSSR (for Golubtsov). 2. Vsesoyuznyy  
zaochnyy inzhenerno-stroitel'nyy institut (for Zakh). 3. Giprosoakhar  
(for Khaldeyev). 4. Energeticheskiy institut AN SSSR (for Tager).
5. Ukgiprosoakhar (for Kachinskiy). 6. Probnenergoprojekt (for Lavrov).  
(Electric power plants)



KACHINSKIY, W. K.

94-58-6-12/19

AUTHOR: An Editorial note on p 18 is followed by contributions to the discussion by a number of authors.

TITLE: Discussion on the Design of Medium and Low Output Industrial Power Stations (Diskussiya po voprosu proyektirovaniya promyshlennykh elektrostantsiy sredney i maloy moshchnosti)

PERIODICAL: Promyshlennaya Energetika, 1958, Nr 6, pp 18-33 (USSR)

ABSTRACT: Editorial note p 18

The unsatisfactory position in the equipment, design and construction of small and medium industrial power stations is seriously retarding power development. In Promyshlennaya Energetika, 1956, Nr 9, M. I. Lavrov published an article for discussion on this subject. We must agree with Lavrov that the standard designs issued by Promenergoprojekt are unsatisfactory and new types of industrial Heat and Electric power stations are required. Small, costly, inefficient power stations are displacing small and medium heat and electric power stations simply because these latter are too big and complicated. Small and medium power stations should be cheap and simple and

Card 1/9 their design should be thoroughly reviewed. Industrial

94-58-6-12/19

Discussion on the Design of Medium and Low Output Industrial Power Stations

gas turbines should be introduced. In the discussion published below there are no contributions from Works making power equipment and they and staff of Councils of National Economy are asked to join in.

Professor Golubtsov, V. A. (Corresponding Member, Academy of Science USSR), pp 18-20

Work on the development of cheap and simple industrial power stations is lagging. In 1952, at MONITOR M.I. Lavrov made a number of suggestions about drawing up new types of medium and small industrial power stations, and in 1956 he published an article on the subject in Promyshlennaya Energetika, Nr 9, based on his earlier report. In the intervening five years a number of his ideas had been confirmed but they had never been adequately discussed. Concerning Lavrov's article, it is a good idea to have individual feed arrangements for each set; it is inadvisable to have more than one steam reduction and cooling installation because of the equipment and piping required. Lavrov's comments on the poor characteristics of feed pumps are correct. Small instruments are required

Card 2/11  
9

94-58-6-12/19

Discussion on the Design of Medium and Low Output Industrial Power Stations

so that control panels can be made cheaply. The proposal to reduce the size of deaerator tanks requires further consideration. The use of semi-outdoor construction is progressive. The question of local mechanisation and avoidance of the use of bridge cranes is important, neither is a crane needed in the boiler house. It is correct to lighten the turbine foundations and the building structure. Some underground communications must, however, be retained. Not all the author's suggestions are fully worked out or acceptable, the main thing is that he has come up with new and critical ideas.

Zakh, R. G., Candidate of Technical Science (All-Union Engineering-Constructional Correspondence Institute) pp20-21.

It is very necessary to revise the construction of power stations of 8 to 12 MW and Lavrov's proposals are generally acceptable. In smaller power stations use should be made of steam at 130 - 140 atms, 535-565°C using pearlitic class steel. Detail proposals are made for simplification of the thermal circuit of the power station. Boiler houses can be simplified when burning pulverised fuel.

Card 3/2

94-58-6-12/19

Discussion on the Design of Medium and Low Output Industrial  
Power Stations

Standardisation of boiler sets is discussed. Air heaters should be made smaller. Forced circulation boilers of Lamont type should be introduced because they are smaller. Construction should be speeded up using prefabricated standardised concrete parts. Unit type sets made within the limitations of the railway loading gauge can help to make construction cheaper.

Khaldeyev, P. I., Engineer (Giprosakhar)

It is important to cheapen and simplify small power stations because of the large number of heat and electric power stations that it is proposed to build. Lavrov's cost curve should not rise so steeply for small sets, because small sets are simple and of low capital cost. A revised cost curve for small heat and electric power stations is given in Fig.1. Capital costs of types 1 and 2 heat and electric power stations are tabulated and the reduced costs that result from fuel and ash handling and water supply in type 1 stations is evident, capital savings are up to 22%. Question of fuel and ash handling and water treatment are then discussed in detail. Ammonia-sodium cation treatment is recommended as being simpler

Card  
4/21  
9

94-58-6-12/19

Discussion on the Design of Medium and Low Output Industrial Power Stations

for sugar works than H-Na cation treatment, this ammonia process should be widely used in other branches of industry. Effective measures must be taken to keep ammonia out of the steam. The use of back pressure turbines is recommended. The use of pre-assembled distribution equipment for 6 kV makes it possible to simplify the main distribution equipment. Layout of electrical control and distribution gear is discussed. Fuel handling problems are then considered. The arrangement of power stations of 6 - 8.5 MW shown in Fig.2 is in accordance with the principles explained, of the two arrangements given the first is to be preferred. Most of Lavrov's suggestions for making stations cheaper and simpler are agreed with. Medium power stations should combine the practice of large and of small stations, but hitherto they have been based only on that of large stations. Some of Lavrov's ideas are debatable. Unit arrangement of feed means having more feed pumps and desaturators. Whilst unit working of turbines and boilers is desirable the necessary uniformity of loading cannot

Card 5/21  
9

94-58-6-12/19

Discussion on the Design of Medium and Low Output Industrial Power Stations

always be achieved in industrial stations. If feed lines are not linked full use cannot be made of deaerator capacity of lightly loaded sets. Central control of the thermal and mechanical part of the station is very desirable, but cannot be achieved in most small stations with chain grate stokers with fuel of variable quality because complex automation is not possible. A number of requirements for the near future are listed: load factors should be improved by combining different types of loading; fuel should be delivered in loads equal to about half the storage capacity; equipment suitable for outdoor operation should be supplied; other improvements are listed.

Tager, S. A., Candidate of Technical Science (Power Institute, Ac. Sc. USSR) pp 25-27.

Small and medium power stations have, in recent years, been built on the model of large regional power stations, which is a mistake. Much work is required to make industrial power stations cheaper and simpler. The physical arrangement of deaerators and water treatment

Card  
6/12  
9

94-58-6-12/19

Discussion on the Design of Medium and Low Output Industrial Power Stations

plant is discussed. The idea of unit construction of boiler, turbine, deaerator, feed pump, reduction and cooling plant is hardly suitable for small and medium stations, partly because the various components must be convenient and reliable. It is often quite impossible to give each set its own reduction and cooling installation. Boiler house layout is discussed, the arrangement without basement is preferred. The climatic conditions of the USSR do not favour open air boiler houses as a general solution. Plant sizes can be cut down and boiler costs reduced. For burning small fuel, furnaces with liquid slag removal offer promise, particularly cyclone furnaces and other types recently rig tested at the Power Institute, Ac.Sc., USSR. Modern mechanised chain grate furnaces must be used. Their advantages are described. The main reason why they have not been used more extensively is that existing Soviet designs are out of date. Chain grates can be used to burn coal with high fines content, and they have been used with success for many years at the Chelyabinsk Regional Electric Power

Card  
7/21

9

94-58-6-12/19

Discussion on the Design of Medium and Low Output Industrial Power Stations

Station, burning local brown coal. The new method of burning hot fine fuel, developed by the Power Institute, Ac.Sc. USSR makes possible complete combustion of material carried over and trapped in gasways and ash arresters. A further factor hindering the introduction of chain grate stokers is the disorganisation of fuel supply which leads to wide variations in fuel quality at any particular power station, so that the plant has to be about universal - greater uniformity of fuel quality is required. Meanwhile the fuel balance is changing, and fuel oil and natural gas are particularly suitable fuels for small power stations. In view of this changing situation small power stations should be designed to run on natural gas and oil fuel and gas turbine and diesel stations should be designed. Because of its scattered nature there is no research or design institute for industrial power supply and there should be.

Kachinskiy, R. K. (Engineer) (Ukrgiprosakhar), p 28

Card 8/11 <sup>9</sup> ~~The unit system of operation~~ is supported on grounds of reliability and economy. Pressures of 60-80 atms should



Discussion on the Design of Medium and Low Output Industrial Power Stations.

(Kachinskiy, R. K. , Con't)

be used for power stations of 8-12 MW. Unit feed lines are desirable, but there should be automatic connection of spare feed pumps. Fuel handling equipment can be simplified. The standards of the Boiler Inspectorate should be simplified.

card 9/9

KACHINSKIY, TS.B.

Therapy of lumbosacral radiculitis. Sov.med. 17 no.12:31-32 D '53.  
(MLBA 6:12)

1. Is Budyl'skogo vrachebnogo uchastka ~~Spinal~~ oblasti.  
(Nerves, Spinal--Inflammation)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820003-3

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820003-3"

S/020/60/135/004/014/037  
B019/B077

AUTHOR: Kachinskiy, V. N.

TITLE: Anisotropy of the Hall Effect in Tin

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 4, pp. 818-821

TEXT: The new theory of the galvanomagnetic effects in metals showed that the experimental investigations of the anisotropy of Hall effect and resistance offer the possibility of studying the topology of Fermi surfaces. The measurements with tin were made by the author at 4.2°K and in a magnetic field of about 7 koe. The specimens were cylindrical single crystals made of high-purity tin, and the orientation of the crystals was determined by optical methods. The voltage was measured by the compensation method, and a d-c amplifier with a superconducting modulator was used as zero indicator. This setup allowed measurements with currents of 1 - 5 a, and the commutation of the current direction was also possible. The circular graphs of the Hall effect and the resistance were recorded. Fig. 1a shows the position of the contacts, Fig. 1b shows the vector circular graph of the Hall effect for two different magnetic field

Card 1/5

Anisotropy of the Hall Effect in Tin

S/020/60/135/004/014/037  
B019/B077

strengths. In these graphs, the changes of the magnitude and the direction of the vector of the Hall field are shown as a function of the change of direction of the magnetic field. The indices at every vector end-point denote the direction of the magnetic field. If the directions of the magnetic field are in parallel with the axes [110], [100], and [010], minima of the Hall effect will occur, and their depth will increase with increasing magnetic field strength. The correlation of form and width of the Hall effect minima in the directions [100] and [110] with the forms and widths of the resistance minima in the same directions is pointed out. It was also found that the Hall effect changes its sign if the magnetic field is in parallel with plane (001). The author thanks N. A. Brilliantov and A. I. Shal'nikov for their interest, N. Ye. Alekseyevskiy for his advice to employ the type of amplifier described above, and I. M. Lifshits and V. G. Peschanskiy for a number of valuable suggestions. There are 3 figures and 8 references: 6 Soviet and 2 US.

ASSOCIATION: Institut kristallografii Akademii nauk SSSR (Institute of Crystallography, Academy of Sciences USSR)

Card 2/5

5  
Anisotropy of the Hall Effect in Tin

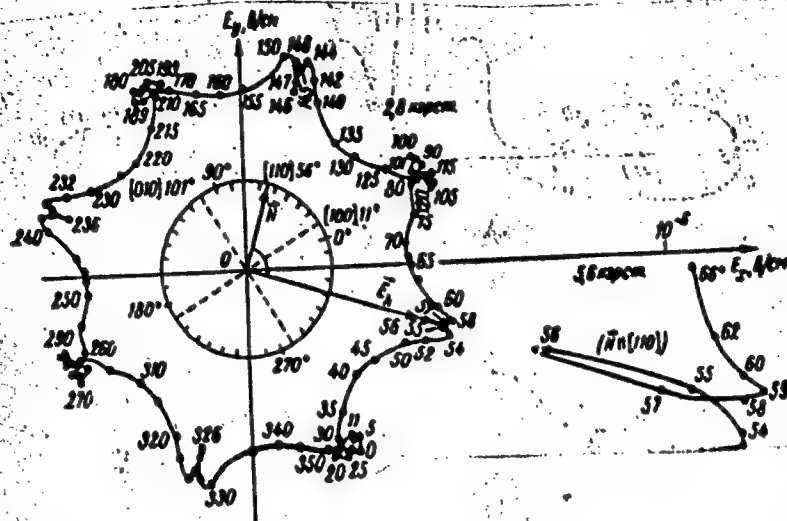
S/020/60/135/004/014/037  
B019/B077

PRESENTED: April 21, 1960, by A. V. Shubnikov, Academician

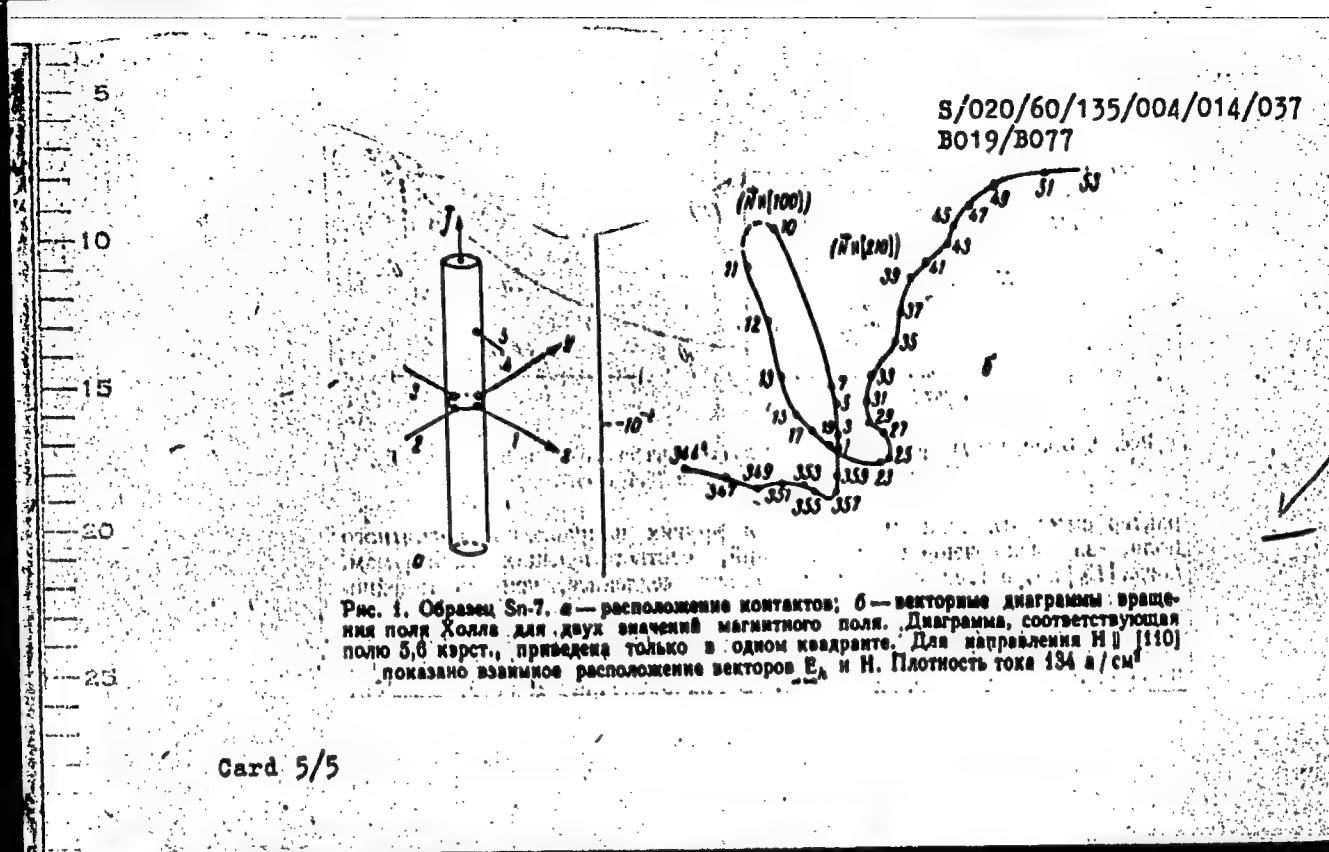
0  
SUBMITTED: April 20, 1960

5  
Card 3/5

S/020/60/135/004/014/037  
B019/B077



Card 4/5





KACHINSKIY, V.N.

Phase inverter with a smooth changing in wide ranges. Prib. i  
tekh. eksp. 6 no.1:107 Ja-F '61. (MIRA 14:9)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta,  
i Institut kristallografii AN SSSR.  
(Phase converters)

24.5600

41124

S/056/62/043/004/007/061  
B102/B180

AUTHOR: Kachinskiy, V. N.  
TITLE: Features of the Hall effect in tin in a strong effective magnetic field  
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1158 - 1163.

TEXT: The Hall effect at 4.2°K and 6.9 koe was studied on a large number of cylindrical white tin single crystal samples 2 cm long and 1.5-3 mm thick, cut in different crystallographic directions. It had an open Fermi surface and a reduced resistivity  $\rho' = \rho_{290^\circ\text{K}}/\rho_{4.2^\circ\text{K}} = 60,000$  so that  $H_F'$  the effective field was  $\sim 5 \cdot 10^8$  oo. To measure the e.m.f. (accuracy  $5 \cdot 10^{-10}$ ) four contacts were fixed opposite to one another on each sample in a plane perpendicular to its axis. In all the experiments the magnetic field was perpendicular to the sample axis and the resistivity was determined together with the Hall effect. The results are shown graphically; they can be explained qualitatively by the theory of I. M. Lifshits et al. (ZhETF, Card 1/2).

43928

8/188/62/000/006/015/016  
B125/B104

04.21.00  
AUTHORS: Volkov, S. V., Kachinskiy, V.N.

TITLE: The anisotropy of the sign of the Hall effect in tin

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika, astro-  
nomiya, no. 6. 1962, 80 - 81

TEXT: The minimum effective magnetic field strength required for a change in sign of the Hall emf is determined at 4.2°K using a method established by V. N. Kachinskiy (DAN SSSR, 135, 4, 818, 1960). Two cylindrical sample single crystals (Sn-14 and Sn-15) with similar orientations were drawn from a melt. The Hall emf is positive at  $\psi = \pm 90^\circ$  and at a field strength of at least  $5 \cdot 10^7$  oe. In all the other directions it is negative at any field strength. The angle  $\psi$  is counted from the projection of the [001] axis onto the plane of rotation of the magnetic field. There are 2 figures.

ASSOCIATION: Kafedra fiziki nizkikh temperatur (Department of Low Temperature Physics)

Card 1/2

The anisotropy of the ....

SUBMITTED: April 4, 1962

S/188/62/000/006/015/016  
B125/B104.

Card 2/2

KACHINSKIY, V.N.

Characteristics of the Hall effect in tin in a high effective  
magnetic field. Zhur. eksp. i teor. fiz. 43 no.4:1158-1163  
0 '62. (MIRA 15:11)

1. Institut kristallografii AN SSSR.  
(Hall effect) (Magnetic fields)  
(Tin)

VOLKOV, S.V.; KACHINSKIY, V.N.

Anisotropy of the sign of the Hall effect in tin. Vest.Mosk.un.  
Ser.3:Fiz.,astron. 17 no.6:80-81 N-D '62. (MIRA 15:12)

1. Kafedra fiziki nizkikh temperatur Moskovskogo universiteta.  
(Hall effect) (Tin) (Magnetic fields)

ACCESSION NR: AP4004153

S/0294/63/001/002/0310/0312

AUTHORS: Starostina, L. S.; Kachinskiy, V. N.; Brilliantov, N. A.

TITLE: Method of growing perfect single crystals of refractory metals

SOURCE: Teplofizika vy\*sokikh temperatur, v. 1, no. 2, 1963, 310-312

TOPIC TAGS: single crystal, single crystal growing, perfect single crystal, refractory metal single crystal, crucibleless vacuum zone melting, electron beam zone melting, crystal growing, zone melting, zone refining, refractory metal, crystal growth, single crystal growth

ABSTRACT: Apparatus is described for growing single crystals of refractory metals by zone melting in deep vacuum without a crucible, using a focused electron beam for heating. Multiple zone recrystallization is possible in the equipment. Single crystals of tungsten, rhenium, tantalum, niobium, molybdenum, vanadium, and zirconium were grown. The purity and perfection of the crystals was monitored by measuring the ratio of the specific resistivities at room

Card 1/2

ACCESSION NR: AP4004153

temperature and at liquid helium temperature. Single crystals grown from initial material 99.9% pure had a ratio of 10,000 for tungsten and 3,000 for molybdenum, thus refuting the assumption that transition metals cannot give a large resistance ratio because of the small electron-electron interaction at low temperatures. Measurement of the Hall effect in the very pure specimen of tungsten makes it possible to obtain some information on the Fermi surface of tungsten. Orig./art. has: 2 figures.

ASSOCIATION: Institut kristallografii AN SSSR (Crystallography Institute AN SSSR)

SUBMITTED: 11Jun63

DATE ACQ: 26Dec63

ENCL: 01

SUB CODE: PH, ML

NO REF SOV: 003

OTHER: 001

Card 2/32



KACHINSKIY, V.N.

Highly sensitive d-c amplifier with a superconducting modulator.  
Prib. tekhn. eksp. 8 no.5:207-210 S-O '63. (MIRA 16:12)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universi-  
teta.

L 16987-63 EWT(1)/EWP(q)/EWT(m)/BDS AFFIC/ASD/ESD-3 JD/JG  
 ACCESSION NR: AP3005240 S/0056/63/045/002/004,3/0045 67  
 AUTHOR: Volkenshteyn, N. V.; Kachinsky, V. N.; Starostina, L. S. 63  
 TITLE: On the Fermi surface of tungsten 27  
 SOURCE: Zhurn. eksper. i teoret. fiz., v. 45, no. 2, 1963, 43-45  
 TOPIC TAGS: tungsten, Fermi surface, galvanomagnetic property, magnetoresistance, Hall effect 71  
 ABSTRACT: The electric resistance in a transverse field, the Hall effect, and the transverse voltage on the Hall contacts were investigated in single crystals of pure tungsten at 4.2 K. The dependence of the resistance on the field direction and the quadratic variation of the resistance with the field (in all directions) were similar to those obtained by Fawcett (Phys. Rev. v. 128, 154, 1962), but the angular dependence of the Hall effect, and particularly of the even transverse voltage, exhibited strong anisotropy, with singularities in the form of rather sharp peaks. It is concluded tentatively on the basis of the results obtained that the Fermi surface of tungsten is open, and that Fawcett's conclusions concerning the absence of open trajectories in tungsten cannot be considered final.  
 Cord 1/22

L 16887-63

ACCESSION NR: AP3005240

"The authors express their appreciation to A. I. Shal'nikov for his interest in the work and participation in its progress, and to N. A. Brilliantov for interest." Orig. art. has 1 figure.

ASSOCIATION: Institut kristallografi AN SSSR (Crystallography Inst. Acad. Sci. SSSR); Institut fiziki metallov AN SSSR (Metal Phys. Inst. Acad. Sci. SSSR)

SUBMITTED: 13Feb63

DATE AQ: 06Sep63

ENCL: 01

SUB CODE: PH

NO REF SOV: 004

OTHER: 003

Card

2/32

Kachinskiy, V.N.

N.A. Brilliantov, V.N. Kachinskiy, L.S. Starostina. The growing of molybdenum and tungsten single crystals by zone melting and determination of the Hall effect.

Title: Seminar on refractory metals, compounds, and alloys (Kiev, April 1963).

Source: Atomnaya energiya, v. 15, no. 3, 1963, 266-267

KACHIRIN, M.A.

At the Yaroslavl plant. Put' 1 put. khos. no.6:8-9 Je '59.  
(MIRA 12:10)

1. Machal'nik shpalopropitsochnogo zavoda, Yaroslavl'.  
(Yaroslavl--Railroads--Ties)

KACHIYANI, ARKADIY IVANOVICH

KACHIYANI, Arkadiy Ivanovich; ZOLOTAREV, S.A., red.; KAYDALOVA, M.D.,  
tekh.n.red.

[Soils in agricultural regions of the Far East] Pochvy zemle-  
del'cheskikh raionov Dal'nego Vostoka. [Khabarovsk] Khabarovskoe  
knizhnoe izd-vo, 1954. 165 p. (MIRA 11:1)  
(Soviet Far East--Soils)

KACHIYANI, A.I., kand.biologicheskikh nauk; TREGUBOV, G.A.

Soil classification in the middle and lower Amur Basin and the  
Maritime Territory. Amur sbor. no.2:277-295 '60. (MIRA 15:3)

1. Deystvitel'nyye chleny Geograficheskogo obshchestva SSSR.  
(Soviet Far East--Soils--Classification)

12 8000,

h111:9

S/169/62/000/009/015/120  
D228/D307

AUTHOR: Kachiyan, E. Ye.

TITLE: Influence of higher forms of vibration and energy dispersion on the magnitude of seismic stress

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 21, abstract 9A136 (Tr. Arm. in-ta stroymaterialov i sooruzh., no. 1, 1959, 21-40) f

TEXT: The author considers a vertical cantilever beam, subjected to the effect of a sudden acceleration of its base through seismic percussion or shock. The beam's section and rigidity are constant, and the mass is uniformly distributed down it. For this system with an infinite number of degrees of freedom the bending moments, calculated with allowance for three of the first forms of vibration, are compared with the same moments, calculated for one of the first forms of vibration. The transverse force is similarly compared, with allowance for five of the shearing vibration forms or for one of the first forms. Four versions of the internal friction factor were considered. It is established as a result of the research that disregarding the attenuation and higher forms of vibration leads to considerable errors. A 2-fold increase in the attenuation decreases the effect by 10 - 15%. Allowing for the second and third forms of bending vibration increases the bending moment by 30 - 40% at the foot of the beam as compared with the first form; this increase is considerably higher at the top of the beam. Allowing for the five forms of shearing vibration decreases the transverse force in the beam's lower part by 5 - 10% as compared with one of the first forms and increases it in the beam's upper part by more than twofold. [Abstracter's note: Complete translation.]

Card 1/2

Influence of higher ...

S/169/62/000/009/015/120  
D228/D307

tion factor were considered. It is established as a result of the research that disregarding the attenuation and higher forms of vibration leads to considerable errors. A 2-fold increase in the attenuation decreases the effect by 10 - 15%. Allowing for the second and third forms of bending vibration increases the bending moment by 30 - 40% at the foot of the beam as compared with the first form; this increase is considerably higher at the top of the beam. Allowing for the five forms of shearing vibration decreases the transverse force in the beam's lower part by 5 - 10% as compared with one of the first forms and increases it in the beam's upper part by more than twofold. [Abstracter's note: Complete translation.] f

Card 2/2



*KACHKACHASHVILI, T.K.*

GHACHAVA, M.K., prof.; KACHKACHASHVILI, T.K., ordinator

Polyp and polyposis of the rectum. Khirurgia Supplement:46 '57.  
(MIRA 11:4)

1. Iz gospi'tal'noy khirurgicheskoy kliniki lechebnogo fakul'teta i  
gospi'tal'noy khirurgicheskoy kliniki pediatricheskogo i sanitarno-  
gigiyenicheskogo fakul'tetov Tbilisskogo meditsinskogo instituta.  
(RECTUM--TUMORS)

DELLO, A.V.; SHAROYKO, P.M.; LUR'YE, N.S.; KACHKACHEV, A.Z., otv.red.;  
GIRICHEVA, M.A., red.; BOL'SHAKOV, V.A., ~~otv.red.~~

[Industrial pipe fittings; catalog-reference book] Promyshlennaya  
truboprovodnaya armatura; katalog-spravochnik. Leningrad, Leningr.  
Sovet nar khoz. Upr. mashinostroyeniya. Pt. 1. [Faucets, level  
indicators, shut-off and regulating valves] Krany, ukazateli  
urovnia, zapornye i reguliruyushchie ventili. 1960. 303 p.  
(MIRA 13:7)

1. Leningrad. Tsentral'noye konstruktorskoye byuro armaturo-  
stroyeniya. 2. Tsentral'noye konstruktorskoye byuro armaturo-  
stroyeniya (for Dello, Sharoyko, Lur'ye).  
(Pipe fittings)

DELLO, A.V.; SHAROYKO, P.M.; LUR'YE, N.S.; KACHKACHEV, A.Z., otv. red.

[Industrial piping fittings; catalog and handbook] Promyshlennaya truboprovodnaya armatura; katalog-spravochnik. Leningrad. Leningr. Sovet nar. khoz. Upr. mashinostroeniya. Pt.2. [Vertical check valves, suction and turning valves, slide valves and seals] Klapany obrabotnye pod"emnye, priemnye i povorotnye, sadvizhki i zatvory. 1961. 231 p. (MIRA 15:6)

1. Leningrad. Tsentral'noye konstruktorskoye byuro armaturostroyeniya. 2. Tsentral'noye konstruktorskoye byuro armaturostroyeniya, Leningrad (for Dello, Sharoyko, Lur'ye).  
(Pipe fittings--Catalogs)

DELLO, A.V.; ZARINSKIY, O.N.; LUR'YE, N.S.; SHAROYKO, P.M.;  
KACHKACHEV, A.Z., otv. red.

[Industrial pipe fittings; catalog] Promyshlennaya truboprovodnaya armatura; katalog-spravochnik. Moskva, GOSINTI, Pt.3. [Safety, reduction, regulating and mixing valves, injectors, condenser returns, and electric drives for the control of these fittings] Klapany predokhranitel'nye, reguliruyemye, reduktsionnyye, upravlyayemye, kondensatootvodchiki i elektroprivody dlya upravleniya armaturoi. 1963. 238 p. (MIRA 17:3)

1. Leningrad. Tsentral'noye konstruktorskoye byuro  
Armaturestroyeniya.

24(3)

AUTHORS:

Shuvalov, L. A., Kachkacheva, M. M.,  
Rusakov, L. Z., Zheludev, I. S.

SOV/48-22-12-27/33

TITLE:

On Low-Temperature Polarization of Ceramics From Barium Titanate  
(Nizkotemperaturnaya polyarizatsiya keramiki iz titanata bariya)

PERIODICAL:

Izvestiya Akademii nauk SSSR .Seriya fizicheskaya, 1958,  
Vol 22, Nr 12, pp 1516 - 1519 (USSR) D.

ABSTRACT:

The present paper deals with tests of the polarization and  
the sub-polarization of  $\text{BaTiO}_3$  ceramics in rhombic phase.

This polarization has been called the low-temperature polarization. These tests were made on the assumption that it might be possible to obtain higher values of piezomoduli of ceramics in the rhombic and tetragonal phase by such a polarization in relatively small fields. The low-temperature sub-polarization in the rhombic phase causes an increase of the values of the piezomoduli of ceramics in the tetragonal phase. On heating under the field the subpolarization causes an increase of the  $d_{31}$  by an average 15%. In spite of the noticeable ageing the  $d_{31}$

Card 1/2

On Low-Temperature Polarization of Ceramics From Barium Titanate SOV/48-22-12-27/33

value remains by more than 10% above the initial value. Heating under the field after polarization in the rhombic phase prevents the  $d_{31}$  from becoming smaller during the transition into the tetragonal phase. The polarization in the rhombic phase with heating under the field requires smaller fields than a polarization at room temperature. The  $d_{31}$  values do not become smaller, but in numerous cases even higher than with hot polarization. For this reason the low-temperature polarization can be used along with hot polarization, particularly when the latter is not feasible, for example on account of strong conductivity in the proximity of the Curie (Kyuri) point. The authors thank V. G. Zatevakhina for his collaboration. There are 1 figure, 3 tables, and 5 references, 4 of which are Soviet.

ASSOCIATION: Institut kristallografii Akademii nauk SSSR (Institute of Crystallography, Academy of Sciences USSR) TsNILP Komiteta po radioelektronike Soveta Ministrov SSSR (TsNILP of the Committee on Radioelectronics, Cabinet Council, USSR)

Card 2/2

24(3)

AUTHORS:

Rez, I. S., Smazhevskaya, Ye. G.,  
Kachkacheva, M. M.

SOV/48-22-12-28/33

TITLE:

~~On the Problem of Piezoelectric Ceramics Production for High-~~  
Temperature Operations (K voprosu o poluchenii p'yezokeramiki  
dlya raboty pri povyshennykh temperaturakh)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958,  
Vol 22, Nr 12, pp 1520-1525 (USSR) D.

ABSTRACT:

In the present paper the following compounds were obtained and their properties investigated: solid solutions of  $(Ba,Ca)TiO_3$ ,  $(Ba,Pb)TiO_3$ ,  $(Ba,Ca,Pb)TiO_3$ ,  $Pb(Ti,Zr)O_3$ , lead niobate and solid solutions on the basis of the latter. Since in publications there are no details on  $PbNb_2O_6$ , a piezoelectric with the highest Curie (Kyuri) temperature ( $570^\circ$ ) and its formation conditions, this reaction was subjected to a complex thermographic investigation in the GIEKI at Kh. S. Valeyev's laboratory. G. A. Smolenskiy and V. A. Isupov offered suggestions as to the selection of compositions for producing piezoelectric ceramics on the basis of  $PbNb_2O_6$ . The principal experimental results are given in the

Card 1/3

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820003-3"

$(Ba,Pb)TiO_3$  solutions probably will not be suitable, unless the homogeneity of the material can be increased. Furthermore the low dielectric stability of these ceramics at polarization temperatures must be increased by means of a composition modification of the composition, i.e., by reduction of the conductivity loss that complicates the piezoelectric excitation of electromechanical transformers of this material. The authors express their gratitude to L. Z. Rusakov for valuable advice and to the cooperators of the TsNILP L. B. Gernmayze, A. P. Yermakova, A. V. Konstantinov, N. A. Podol'ner, V. A. Rovitskiy and A. A. Filimonov for helpful assistance.

Card 2/3

On the Problem of Piezoelectric Ceramics Production for High-Temperature Operations

There are 6 figures, 1 table, and 5 references, 2 of which are Soviet.

ASSOCIATION:

TsNILP Komiteta po radioelektronike Soveta Ministrov SSSR  
(TsNILP of the Committee for Radioelectronics of the Council of Ministers, USSR)

85023

S/048/60/024/010/033/033  
B013/B063

9,6180

AUTHORS: Kachkacheva, M. M., Dryabchuk, A. A., Rusakov, L. Z.,  
Smazhevskaya, Ye. G. 21TITLE: High-temperature Piezoelectric Acceleration TransmittersPERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,  
Vol. 24, No. 10, pp. 1304-1306

TEXT: This article gives a description of a new acceleration transmitter. The sensitive element was made of the piezoceramic material  $(\text{Pb}_{0.6}\text{Ba}_{0.4})\text{Nb}_2\text{O}_6$ . A general view of the transmitter is shown in Fig. 1, its design is given in Fig. 2. Due to its compact design the transmitter stands an overload of up to 300 g. It weighs about 50 g, and has a sensitivity of 10 mv/g. The sensitivity for the transverse vibration component is 5 - 6% lower than the axial sensitivity. The frequency characteristics and the temperature dependence of sensitivity are illustrated in Fig. 3 and Fig. 4, respectively. Data for piezoelectric

Card 1/2



KACHKACHISHVILI, G.; DZHLANTIASHVILI, Sh.

Heirs to glorious traditions. Voen.snan. 25 no.12:13  
D '59. (MIRA 12:12)

1. Zamestitel' sekretarya partkoma Tbilisskogo parovozovagonoremontnogo zavoda im.Stalina (for Kachkachishvili).
2. Predsedatel' zavodskogo komiteta Dobrovol'nogo obshchestva sodeystviya armii Tbilisskogo parovozovagonoremontnogo zavoda im.Stalina (for Dzhlantiasvili).  
(Tiflis--Military education)

EXCERPTA MEDICA Sec 13/Vol 13/1 Dermatology Jan 59

208. MALIGNANT SKIN MELANOMA - ITS CLINICAL SYMPTOMS AND  
DIAGNOSIS (Russian text) - Kachkareva K. S. Oncol. Inst., Moscow -  
VOPR. ONKOL. 1958, 4/2 (190-192) Tables 1

An analysis of 216 cases with malignant melanoma and 131 with congenital and developmental naevi observed for a 10-year period (from 1944 up to 1953). In 103 cases congenital naevi resulted in malignant melanomas, while in 113 cases the latter developed from pigmented naevi that had appeared during life. Preceding trauma was noted in 132 cases. The initial form of melanoma was noted in 17 cases, skin and lymph node recurrences were found in 40, while 159 patients had far-advanced melanoma with distant metastases. The author considers the early signs of malignant degeneration to be: unpleasant sensations (pricking, burning and especially itching), augmentation in size, infiltration, increase or decrease of pigmentation, the formation of papillomatous, warty outgrowths, ulcerations and reddening or haemostasis surrounding the primary tumour. (V, 13, 16)

KACHKAREVA, K.Sh., starshiy nauchnyy sotrudnik

Late results of the treatment of malignant skin melanomas. Sov. med.  
25 no.8:138-141 Ag 1. (MIRA 15:1)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo onkologicheskogo  
instituta imeni P.A.Gertsena (dir. - prof. A.N.Novikov).  
(SKIN\_CANCER) (MELANOMA)

KACHKAYEV, P.; BORODIN, A.

Control expenditures in construction more strictly. Fin. SSSR  
19 no.12:68-70 D '58. (MIRA 11:12)

1. Upravlyayushchiy Ivanovskoy oblastnoy kontory Prombanka (for  
Kachkayev). 2. Starshiy inzhener oblastnoy kontory Prombanka (for  
Borodin).  
(Ivanovo Province--Construction industry)

KACHKAYEV, P.; BORODIN, A., inzh.

Why planning costs are high. Fin. SSSR 21 no.3:53-54 Mr '60.  
(MIRA 13:3)

1.Upravlyayushchiy Ivanovskoy oblastnoy kontoroy Stroybanka (for  
Kachkayev).  
(Ivanovo Province--Architecture--Designs and plans--Finance)

BLESHINSKIY, S.V.; KACHKIMBAYEVA, S.A.

Solubility of organic substances in sodium tetraiodomercurate.  
Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 2 no.11:39-65 '60.  
(MIRA 14:10)

(Sodium iodomercurate)

(Solubility)

~~(Organic compounds)~~

BLESHINSKIY, S.V.; KHARAKOZ, A.Ye.; ABRAMOVA, V.F.; VINOGRADOV, V.P.;  
BABENKO, V.T.; KACHKIMBAYEVA, S.A.; Primali uchastiye:  
USUBAKUNOV, M.; NAGAYEVA, A.G.; GORBUNOV, V.D.; MEDVEDEVA,  
V.A.; CHALOVA, Ye.P.; ALTYNNIKOVA, P.M.

Method for separating rare-earth elements based on the thermal  
dissociation of sulfates. Izv. AN Kir. SSR. Ser. est. i tekhn.  
nauk 5 no.4:25-26 '63. (MIRA 16:10)

KACHKIN, S.S.; SOBOLEV, V.S.

Lithologic factor governing the formation of certain gas and oil  
pools. Geol. nefti 2 no.6:20-24 Je '58. (MIRA 11:7)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-  
razvedochnyy institut.  
(Timan Ridge--Petroleum geology) (Timan Ridge--Gas, Natural--Geology)



AVROV, V.Ya.; KACHKIN, S.S.

Lithological characteristics of the producing formation in certain fields of the southern Timan and their effect on the structure of oil and gas pools. Trudy VNIIGRI no.133:61-68 '59. (MIRA 13:1)

(Timan Ridge--Petroleum geology)  
(Timan Ridge--Gas, Natural--Geology)

KACHKIN, S.S.

Electric characteristics of rocks and correlation of deep-  
well sections of the eastern slope of the southern Timan  
Ridge. Trudy VNIGRI no.133:297-303 '59. (MIRA 13:1)  
(Timan Ridge--Oil well logging electric)

PERLI, Georgiy Isaakovich; KACHKIN, V.G., inzh., red.; FOMICHEV,  
G.A., red. izd-va; GVIRTIS, V.L., tekhn. red.

[Experience in gas supply and utilization in the boiler room  
of an industrial heat and electric power plant] Opyt priema i  
ispol'zovaniia gaza v kotel'noi zavodskoi TETs. Leningrad,  
1962. 23 p. (Leningradskii Dom nauchno-tekhnicheskoi propa-  
gandy. Obmen peredovym opytom. Seriya: Energetika, no.2)  
(MIRA 15:3)

(Boilers--Firing)

(Gas as fuel)

KACHKIN, V.

"From the Practice of Eliminating Breakdowns of Direct-Flow High-Pressure Boilers." Tr.  
from the Russian. p. 243, Praha, Vol. 4, no. 5, May 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress